

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No11554.128 (US6))

Applicant(s): Domash, et al.

Serial No.: TBA

Filed: Herewith

For: INDEX TUNABLE THIN FILM INTERFERENCE COATINGS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants and their attorney are aware of the following publications and information listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 for the Examiner's consideration.

Pursuant to 37 C.F.R. §1.97, Applicants hereby make of record the documents listed on the attached Form PTO-1449. The references listed on the enclosed Form PTO-1449 have been cited in related application, U.S. Serial Nos. 10/174,503. Therefore, pursuant to 37 C.F.R. §1.98(d), no copies of the previously cited art are being enclosed.

This application is a divisional of application Serial Nos. 10/174,503.

It is respectfully requested that the information above be expressly considered during the prosecution of this application and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In this regard, it is requested that the Examiner initial and return a copy of the enclosed Form PTO-1449 with the next Patent Office Communication.

This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to patentability or that the listed documents are prior art. If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

NEW DIV
111554.128 (US6)

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits and is therefore submitted as both timely and proper; therefore, no fees are believed to be due.

The Commissioner, however, is hereby authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. 08-0219. A duplicate copy of this sheet is enclosed for that purpose.

Date: September 19, 2003

Respectfully submitted,



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|---|---|----|---|------------------------------------|--|-------------------------------|--|
| Subt. For, PTO-1449 | | | | Docket Number 111554.128 US6 | | Application Number NEW DIV | |
| INFORMATION DISCLOSURE IN AN APPLICATION <i>(Use several sheets if necessary)</i> | | | | Applicant Domash, et al. | | | |
| | | | | Filing Date 9/19/2003 | | Group Art Unit | |
| Sheet | 1 | OF | 2 | | | | |

| U.S. Patent Documents | | | | | | |
|-----------------------|-----------------|---------------|----------------|-------|----------|----------------------------|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | 4,929,063 | May 29, 1990 | Durand et al. | 350 | 353 | |
| | 5,037,169 | Aug. 6, 1991 | Chun | 385 | 16 | |
| | 5,218,422 | Jun. 8, 1993 | Zoechbauer | 356 | 352 | |
| | 5,408,319 | Apr. 18, 1995 | Halbout et al. | 356 | 352 | |
| | 6,018,421 | Jan., 2000 | Cushing | 359 | 589 | |
| | 5,619,059 | April, 1997 | Li, et al. | 257 | 431 | |
| | 5,515,460 | May 7, 1996 | Stone | 385 | 24 | |

| Foreign Patent Documents | | | | | | | |
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| | WO 00/22479 | Apr. 20, 2000 | PCT | | | | |
| | EP 1055959 A2 | Nov. 29, 2000 | EP | | | | |

| Other Documents (including Author, Title, Date Pertinent Pages, Etc.) | | |
|---|--|--|
| A1 | Augustine, B.H. et al. "Thermal-optical switching of a silicon based interference filter" <i>J. Appl. Phys.</i> (15 February 1994): 75(04) 1875-1877 | |
| A2 | Niemi, T. et al. "Tunable Silicon Etalon for Simultaneous Spectral Filtering and Wavelength Monitoring of a DWDM Transmitter." <i>IEEE Photonics Technology Letters</i> (January 2001) 13(1) 58-60 | |
| A3 | Kajava T. et al. "Tunable Fabry-Perot micro-Filters for Telecommunication system Diagnostics." <i>Tech Dig. Conf. Lasers and Electro-Optics Cleo/Europe</i> (1998) 324 | |
| A4 | Carbunescu, E. "Non linear optical effects in hydrogenated amorphous silicon" <i>Optical Engineering</i> (May 1996): 35(05) 1322-1324 | |
| A5 | Cocorullo, G. et al. "Amorphous silicon based waveguides and light modulators for silicon low-cost photonic integrated circuits." <i>MRS Fall Meeting Boston</i> (December 1997) | |
| A6 | Cocorullo, G. et al. "Amorphous silicon Waveguides and Interferometers for Low-Cost Silicon Optoelectronics." <i>SPIE</i> (1998): 3278, 286-292 | |
| A7 | Cocorullo, G. et al. "Amorphous silicon waveguides and light modulators for integrated photonics realized by low-temperature plasma-enhanced chemical-vapor deposition." <i>Optics Letters</i> (15 December 1996): 21(4) 2002-2004 | |
| A8 | Cocorullo, G. et al. "Amorphous Silicon-Based Guided-Wave Passive and Active Devices for Silicon Integrated Optoelectronics." <i>IEEE Journal of Selected Topics in Quantum Electronics</i> (Nov/Dec 1998): 4(6) 997-1002 | |
| A9 | Cocorullo, G. et al. "Fast infrared light modulation in a-Si:H micro-devices for fiber-to-the-home applications." <i>Journal of Non-Crystalline Solids</i> (2000) 1247-1251 | |
| A10 | Cocorullo, G. et al. "Silicon Thermo-optical Micromodulator with 700-KHz -3-dB Bandwidth." <i>IEEE Photonics Technology Letters</i> (April 1995): 7(4) 363-365 | |
| A11 | Cocorullo, G. et al. "Thermo-Optical Modulation at $\lambda=1.5 \mu\text{m}$ in an $\alpha\text{-SiC-}\alpha\text{-Si-}\alpha\text{-SiC}$ Planar Guided-Wave Structure." <i>IEEE Photonics Technology Letters</i> (July 1996): 8(7) 900-902 | |
| A12 | Coppola, G. et al. "Simulation and analysis of a high-efficiency silicon optoelectronic modulator based on a Bragg mirror." <i>Society of Photo-optical Instrumentation Engineers</i> (June 2001): 40(6) 1076-1081 | |
| A13 | Della Corte, F. et al. "Study of the thermo-optic effect in hydrogenated amorphous silicon and hydrogenated amorphous silicon carbide between 300 and 500 K at $1.55 \mu\text{m}$." <i>Applied Physics Letters</i> (9 July 2001): 79(2) 168-170 | |

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| EXAMINER | DATE CONSIDERED |
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| Sheet | 2 | OF | 2 | | | | |

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| | B1 | Eicker, U. et al. "Optical bistability in amorphous Si-C alloys and amorphous alloy interference filters." <i>Optical Society of America</i> (1991): 8(3), 614-617 |
| | B2 | Iodice, M. et al. "Simple and low-cost technique for wavelength division multiplexing channel monitoring." <i>Society of Photo-Optical Instrumentation Engineers</i> (June 2000): 69(6) 1704-1711 |
| | B3 | Martinu, L. et al. "Plasma deposition of optical films and coatings: A review." <i>J. Vac. Sci. Technol.</i> (Nov/Dec 2000): A18(6), 2619-2645. |
| | B4 | Niemi, T. et al. "Tunable Silicon Etalon for Simultaneous Spectral Filtering and Wavelength Monitoring of a DWDM Transmitter." <i>IEEE Photonics Technology Letters</i> (January 2001): 13(1) 58-60 |
| | B5 | Parmentier, F. et al. "Towards Tunable Optical Filters." <i>Technical Digest, OSA Topical Meeting Optical Interference Coatings</i> (15 July 2001) Paper WB1 |

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|---|-----------------|
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